



Masterpiece

Enables a large multi site, multi language data cleaning project to be managed efficiently and deliver high quality results

Masterpiece is our fully hosted data cleaning application. It is used by large and medium sized companies to manage, control and deliver projects to convert materials master data held in many systems, described in several languages and with inconsistent formatting into a single well structured master record for each unique item, globally.

Masterpiece builds on the core foundations of our **technical dictionary**, advanced **catalogue**, and **description building** functionality to deliver a depth of essential features that can only be found in an application tried and tested over many years and millions of lines of data.

It provides all the processing screens, workflows, quality management and project tracking required to undertake a global, enterprise wide, materials data cleaning project. To deliver maximum efficiency, the system includes a series of automated data scanning algorithms, which parse key data and match and group duplicate items. Moreover, as fully hosted software, data cleaning and enhancement work can be undertaken by anyone you choose (your own staff, your suppliers, third party contractors, or even us!), at any time and in any location, using a simple web browser connected to the Internet.

Several levels of user access are available and all activities are audited and monitored through Masterpiece, thus transforming an otherwise fragmented task into a visible and controlled project, using robust, reliable and repeatable processes.

Data Profiling

As legacy data is uploaded for cleaning, Masterpiece runs a series automated routines that scan through free text descriptions to pick out key words, manufacturer names and part numbers to match and categorise each item against the currently approved catalogue and dictionary structures. Where there is inconsistent data, for example multiple ways of describing equivalent units of measure (Each, Piece, EA, PCE), this is highlighted and resolutions are then applied across the data set.

During every project sparesFinder's technical specialists conduct a series of analyses, often in conjunction with your own category experts, to optimise the scanning algorithms for

Report Group	Total	Loaded	Scanned	In Progress	Checked	Quality Controlled	Quality Approved	Accepted	Pending	Rework
WIP Data	421	0	0	0	0	0	421	0	0	0
Manufacturers Profile	818	0	0	0	11	0	801	0	6	0
Language Profile	62,985	0	1	8	696	8	0	61,290	949	33
Language ID	16,883	0	0	76	4	610	1,848	14,344	1	0
Language Code	77,364	0	3,750	236	2,678	70,433	0	0	262	5
Language Unit of Measure	4,706	0	0	1,827	1	0	2,754	0	124	0
Language ID	1,491	0	0	1,104	386	0	0	0	0	1
Language Code	35,526	0	0	18	1	1	2,861	32,590	52	3
Language Profile	21,611	0	58	76	8,170	9,278	0	2,925	1,103	1
Language ID	7,284	0	3	39	0	0	27	6,891	319	5
Language Code	30,080	0	2,130	12,300	3,418	0	4	8,096	2,469	1,663
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Total	259,169	0	5,942	15,684	15,365	80,330	8,716	126,136	5,285	1,711

Live profile of progress of work throughout the project

each particular data set and to attain the best possible result. These automated processes are fast, robust, reliable and repeatable and help you to build a profile of your existing data set very quickly.

The resulting data can is then presented to the user in a series of highly configurable profile grids, showing the total number of data rows for whichever grouping or view of the dataset is required, and allowing drill down to view and adjust, or validate the data as required.



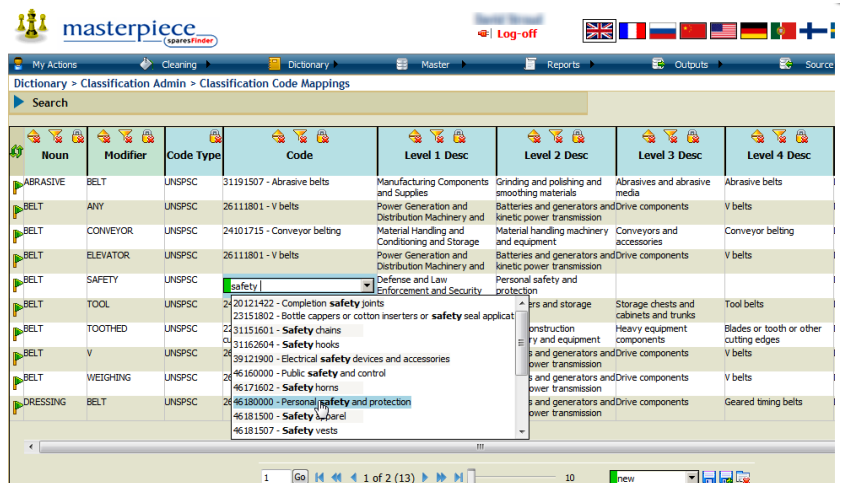
Process Workflow

Once the automated scanning processes have been run on your data, a clear picture will emerge of the difference between it and your required standard. Masterpiece breaks down the tasks involved in completing the data cleaning in many ways, according to the work required, and offers project managers the ability to allocate tasks to individual users and track their progress.

Being web-based, Masterpiece can be made available to a user instantly, anywhere in the world, so the person best able to complete the work on time and most cost-effectively can be chosen. For example:

- Category experts who know your operating environment and can leverage their knowledge across the whole company, rather than at a single site
- OEMs and suppliers who can use their records of what they sold you, even when your files are incomplete
- Local inventory managers who know their stores and can quickly check and inspect a few items at zero travel cost
- Third party data cleaning companies where a rapid, bulk cleaning project is required, or remote office based research is a viable option. sparesFinder has partnered with specialist companies and regularly provides this turn-key solution to our customers

A very high quality of work is ensured by the granular and tightly controlled nature of our tool, which we can readily demonstrate to prospective customers. It even enables users to work on data supplied in different languages and identify duplicates across all the languages used. All of your users access the same database, so there is no risk of duplicated effort and, indeed, many time-saving features are built in to ensure maximum efficiency during manual data enhancement.



Noun	Modifier	Code Type	Code	Level 1 Desc	Level 2 Desc	Level 3 Desc	Level 4 Desc
ABRASIVE	BELT	UNSPSC	31191507 - Abrasive belts	Manufacturing Components and Supplies	Grinding and polishing and smoothing materials	Abrasives and abrasive media	Abrasive belts
BELT	ANY	UNSPSC	26111801 - V belts	Power Generation and Distribution Machinery and	Batteries and generators and kinetic power transmission	Drive components	V belts
BELT	CONVEYOR	UNSPSC	24101715 - Conveyor belting	Material Handling and Conditioning and Storage	Material handling machinery and equipment	Conveyors and accessories	Conveyor belting
BELT	ELEVATOR	UNSPSC	26111801 - V belts	Power Generation and Distribution Machinery and	Batteries and generators and kinetic power transmission	Drive components	V belts
BELT	SAFETY	UNSPSC	46171602 - Safety	Defense and Law Enforcement and Security	Personal safety and protection		
BELT	TOOL	UNSPSC	240121422 - Completion safety joints		ers and storage	Storage chests and cabinets and trunks	Tool belts
BELT	TOOTHED	UNSPSC	2231151601 - Safety chains		struction ry and equipment	Heavy equipment components	Blades or tooth or other cutting edges
BELT	V	UNSPSC	39121900 - Electrical safety devices and accessories		and generators and Drive components	Drive components	V belts
BELT	WEIGHING	UNSPSC	46160000 - Public safety and control		and generators and Drive components	Drive components	V belts
DRESSING	BELT	UNSPSC	46180000 - Personal safety and protection		and generators and Drive components	Drive components	Geared timing belts
			46181500 - Safety apparel				
			46181507 - Safety vests				

Quality Management

There are many ways of ensuring the highest levels of quality are attained, but too often quality assurance processes are added as an afterthought in application development. In Masterpiece, however, these have been embedded within our design and are apparent throughout the application. Examples of these include:

- Use of a technical dictionary with controlled entry for every field and guidance for users on the mandatory fields
- Bulk review and approval of all attribute values added during cleaning or item creation, with options to adjust or replace en masse
- Use of look-ahead fields and drop-down lists encourages users to use existing values
- Clear management of the check/control/approve process for every line of data
- Assignment of users to different levels of quality authority, so only more experienced staff are able to approve cleaning work



- A series of bulk quality analyses, looking for patterns across data sets, with exceptions subject to review and acceptance

The tracking of data quality is readily apparent using the data profile grids, right down to the level of giving a statistical analysis of the compliance of data with the targeted standard for every noun and modifier.

Control & Reporting

Within a data cleaning project, it is crucial to maintain a good history of work undertaken in order to ensure accountability, understand why decisions have been made and make corrections. All significant activity is recorded within the Masterpiece audit files and reports are available within the tool to track progress at individual, factory, country, regional and corporate levels.

Changed By	11/10/2010 09:48:52	11/10/2010 09:48:00	11/10/2010 09:45:34	11/10/2010 09:39:30	11/10/2010 09:39:10	16/09/2010 17:55:50	16/09/2010 17:55:15
Brand/Manufacturer	SKF	SKF	SKF	SKF	SKF	SKF	SKF
Clean Part No	6001 2RS	6001 2RS	6001 2RS	6001 2RS	6001 2RS	6001 2RS	6001 2RS
Noun Modifier	BEARING BALL	BEARING BALL	BEARING BALL	BEARING BALL	BEARING BALL	BEARING BALL	BEARING BALL
TYPE					ANGULAR CONTACT	BLUE	BLUE
BORE TYPE							
INSIDE DIAMETER	12 (mm)	12 (mm)	12 (mm)	0.355 (mm)	0.355 (mm)	0.355 (mm)	0.75 (mm)
WIDTH	8 (mm)	8 (mm)	8 (mm)	0.437 (mm)	0.437 (mm)	0.437 (mm)	0.437 (mm)
OUTSIDE DIAMETER	28 (mm)	28 (mm)	28 (mm)	0.555 (mm)	0.555 (mm)	0.555 (mm)	1.312 (mm)
CAGE MATERIAL	BRASS	BRASS	BRASS	BRASS	BRASS	BRASS	BRASS
ROW		SINGLE (ROW)	MULTIPLE (ROW)	MULTIPLE (ROW)	MULTIPLE (ROW)	MULTIPLE (ROW)	MULTIPLE (ROW)
RADIAL CLEARANCE		C1	C1	C1	C1	C1	C1
STYLE		DOUBLE SEALED	DOUBLE SEALED	DOUBLE SEALED	DOUBLE SEALED		

Detailed audit trail of all changes made

Another very useful feature is the ability to add free format tags to data lines, which can then be used to group ad hoc tasks and quickly retrieve sets of data.

We have also designed the application to offer straightforward data extracts. Where a regular report is required it is best achieved by adding it to your reports library, but a user is also able to set up and save customised views of data and download this directly from the screen.

Benefits of Masterpiece

Masterpiece can transform your data cleaning project, offering the following benefits:

- Significant reduction in manpower costs through using automated cleaning processes
- Ability to manage large projects and only use expensive manpower resources on cost effective items
- Ability to use out-sourced labour in a controlled, visible and quality assured environment
- Improved productivity through the use of OEM Catalogues
- Leverage of local "little black book" information across entire data set
- Reduced purchasing through improved data quality
- Improved quality of management information
- Improved consistency of future data input, preventing future data cleaning projects

